

### ABSTRACT

Methods and apparatus are provided for handling a STUCK-ON microphone push-to-talk (PTT) switch. The apparatus comprises an input device receiving the PTT output, switches for selecting a radio, and a controller that receives this information and determines whether the PTT switch is STUCK-ON. Until STUCK-ON occurs, the controller passes the microphone signal and a PTT initiated TRANSCVER-ON command to the radio causing it to transmit. When STUCK-ON occurs, the state of the PTT switch is ignored and the transmitter shut off. The status of other PTT switches and radios are not affected. In the method, the active PTT signal results in a TRASNCVR-ON command to the transmitter until a PTT-ON timer reaches a predetermined critical value  $T_c$ , whereupon the PTT-ON signal is blocked, the transmitter returned to stand-by and an alarm turned on to warn the pilot of the stuck PTT switch.